

Release notes for ENDF/B Development n-024_Cr_050
evaluation



April 26, 2017

- checkr Warnings:

1. A previous error halted parsing of the current section
MAT=2425, MF= 1, MT=451 (1): Parsing stopped

```
ERROR(S) FOUND IN MAT=2425, MF= 1, MT=451
SECTION CANNOT BE CHECKED FROM SEQUENCE NUMBER 493 TO 562
```

- checkr Errors:

1. A variable is outside the allowed ENDF range
MAT=2425, MF= 1, MT=451 (0): Variable range

```
ERROR(S) FOUND IN MAT=2425, MF= 1, MT=451
MOD = 5 OUT OF RANGE 0 - 0 RECORD NUMBER 493
```

2. Missing a section in directory so your directory is messed up. This error will break everything else
MAT=2425, MF= 2, MT=151 (0): Directory (b)

```
ERROR(S) FOUND IN MAT=2425, MF= 2, MT=151
SECTION 2/151 NOT IN DIRECTORY RECORD NUMBER 564
```

3. Missing a section in directory so your directory is messed up. This error will break everything else
MAT=2425, MF= 3, MT= 1 (0): Directory (b)

```
ERROR(S) FOUND IN MAT=2425, MF= 3, MT= 1
SECTION 3/ 1 NOT IN DIRECTORY RECORD NUMBER 966
```

4. Missing a section in directory so your directory is messed up. This error will break everything else
MAT=2425, MF= 3, MT= 2 (0): Directory (b)

```
ERROR(S) FOUND IN MAT=2425, MF= 3, MT= 2
SECTION 3/ 2 NOT IN DIRECTORY RECORD NUMBER 1427
```

5. Missing a section in directory so your directory is messed up. This error will break everything else
MAT=2425, MF= 3, MT= 3 (0): Directory (b)

```
ERROR(S) FOUND IN MAT=2425, MF= 3, MT= 3
SECTION 3/ 3 NOT IN DIRECTORY RECORD NUMBER 1887
```

6. Missing a section in directory so your directory is messed up. This error will break everything else
MAT=2425, MF= 3, MT= 4 (0): Directory (b)

```
ERROR(S) FOUND IN MAT=2425, MF= 3, MT= 4
SECTION 3/ 4 NOT IN DIRECTORY RECORD NUMBER 1959
```

7. Missing a section in directory so your directory is messed up. This error will break everything else
MAT=2425, MF= 3, MT= 5 (0): Directory (b)

ERROR(S) FOUND IN MAT=2425, MF= 3, MT= 5
SECTION 3/ 5 NOT IN DIRECTORY RECORD NUMBER 1977

8. Missing a section in directory so your directory is messed up. This error will break everything else
MAT=2425, MF= 3, MT= 16 (0): Directory (b)

ERROR(S) FOUND IN MAT=2425, MF= 3, MT= 16
SECTION 3/ 16 NOT IN DIRECTORY RECORD NUMBER 2030

9. Missing a section in directory so your directory is messed up. This error will break everything else
MAT=2425, MF= 3, MT= 22 (0): Directory (b)

ERROR(S) FOUND IN MAT=2425, MF= 3, MT= 22
SECTION 3/ 22 NOT IN DIRECTORY RECORD NUMBER 2038

10. Missing a section in directory so your directory is messed up. This error will break everything else
MAT=2425, MF= 3, MT= 28 (0): Directory (b)

ERROR(S) FOUND IN MAT=2425, MF= 3, MT= 28
SECTION 3/ 28 NOT IN DIRECTORY RECORD NUMBER 2045

11. Missing a section in directory so your directory is messed up. This error will break everything else
MAT=2425, MF= 3, MT= 51 (0): Directory (b)

ERROR(S) FOUND IN MAT=2425, MF= 3, MT= 51
SECTION 3/ 51 NOT IN DIRECTORY RECORD NUMBER 2053

12. Missing a section in directory so your directory is messed up. This error will break everything else
MAT=2425, MF= 3, MT= 52 (0): Directory (b)

ERROR(S) FOUND IN MAT=2425, MF= 3, MT= 52
SECTION 3/ 52 NOT IN DIRECTORY RECORD NUMBER 2069

13. Missing a section in directory so your directory is messed up. This error will break everything else
MAT=2425, MF= 3, MT= 53 (0): Directory (b)

ERROR(S) FOUND IN MAT=2425, MF= 3, MT= 53
SECTION 3/ 53 NOT IN DIRECTORY RECORD NUMBER 2083

14. Missing a section in directory so your directory is messed up. This error will break everything else
MAT=2425, MF= 3, MT= 54 (0): Directory (b)

ERROR(S) FOUND IN MAT=2425, MF= 3, MT= 54
SECTION 3/ 54 NOT IN DIRECTORY RECORD NUMBER 2096

15. Missing a section in directory so your directory is messed up. This error will break everything else
MAT=2425, MF= 3, MT= 55 (0): Directory (b)

- | | | |
|---|---------------|------|
| ERROR(S) FOUND IN MAT=2425, MF= 3, MT= 55 | RECORD NUMBER | 2108 |
| SECTION 3/ 55 NOT IN DIRECTORY | | |
16. Missing a section in directory so your directory is messed up. This error will break everything else
MAT=2425, MF= 3, MT= 56 (0): Directory (b)
- | | | |
|---|---------------|------|
| ERROR(S) FOUND IN MAT=2425, MF= 3, MT= 56 | RECORD NUMBER | 2120 |
| SECTION 3/ 56 NOT IN DIRECTORY | | |
17. Missing a section in directory so your directory is messed up. This error will break everything else
MAT=2425, MF= 3, MT= 91 (0): Directory (b)
- | | | |
|---|---------------|------|
| ERROR(S) FOUND IN MAT=2425, MF= 3, MT= 91 | RECORD NUMBER | 2132 |
| SECTION 3/ 91 NOT IN DIRECTORY | | |
18. Missing a section in directory so your directory is messed up. This error will break everything else
MAT=2425, MF= 3, MT=102 (0): Directory (b)
- | | | |
|---|---------------|------|
| ERROR(S) FOUND IN MAT=2425, MF= 3, MT=102 | RECORD NUMBER | 2144 |
| SECTION 3/102 NOT IN DIRECTORY | | |
19. Missing a section in directory so your directory is messed up. This error will break everything else
MAT=2425, MF= 3, MT=103 (0): Directory (b)
- | | | |
|---|---------------|------|
| ERROR(S) FOUND IN MAT=2425, MF= 3, MT=103 | RECORD NUMBER | 2155 |
| SECTION 3/103 NOT IN DIRECTORY | | |
20. Missing a section in directory so your directory is messed up. This error will break everything else
MAT=2425, MF= 3, MT=104 (0): Directory (b)
- | | | |
|---|---------------|------|
| ERROR(S) FOUND IN MAT=2425, MF= 3, MT=104 | RECORD NUMBER | 2170 |
| SECTION 3/104 NOT IN DIRECTORY | | |
21. Missing a section in directory so your directory is messed up. This error will break everything else
MAT=2425, MF= 3, MT=107 (0): Directory (b)
- | | | |
|---|---------------|------|
| ERROR(S) FOUND IN MAT=2425, MF= 3, MT=107 | RECORD NUMBER | 2178 |
| SECTION 3/107 NOT IN DIRECTORY | | |
22. Missing a section in directory so your directory is messed up. This error will break everything else
MAT=2425, MF= 4, MT= 2 (0): Directory (b)
- | | | |
|--|---------------|------|
| ERROR(S) FOUND IN MAT=2425, MF= 4, MT= 2 | RECORD NUMBER | 2193 |
| SECTION 4/ 2 NOT IN DIRECTORY | | |
23. Missing a section in directory so your directory is messed up. This error will break everything else
MAT=2425, MF= 6, MT= 5 (0): Directory (b)

- | | | |
|--|---------------|------|
| ERROR(S) FOUND IN MAT=2425, MF= 6, MT= 5 | RECORD NUMBER | 6443 |
| SECTION 6/ 5 NOT IN DIRECTORY | | |
24. Missing a section in directory so your directory is messed up. This error will break everything else
MAT=2425, MF= 6, MT= 16 (0): Directory (b)
- | | | |
|---|---------------|-------|
| ERROR(S) FOUND IN MAT=2425, MF= 6, MT= 16 | RECORD NUMBER | 19316 |
| SECTION 6/ 16 NOT IN DIRECTORY | | |
25. Missing a section in directory so your directory is messed up. This error will break everything else
MAT=2425, MF= 6, MT= 22 (0): Directory (b)
- | | | |
|---|---------------|-------|
| ERROR(S) FOUND IN MAT=2425, MF= 6, MT= 22 | RECORD NUMBER | 19467 |
| SECTION 6/ 22 NOT IN DIRECTORY | | |
26. Missing a section in directory so your directory is messed up. This error will break everything else
MAT=2425, MF= 6, MT= 28 (0): Directory (b)
- | | | |
|---|---------------|-------|
| ERROR(S) FOUND IN MAT=2425, MF= 6, MT= 28 | RECORD NUMBER | 19712 |
| SECTION 6/ 28 NOT IN DIRECTORY | | |
27. Missing a section in directory so your directory is messed up. This error will break everything else
MAT=2425, MF= 6, MT= 51 (0): Directory (b)
- | | | |
|---|---------------|-------|
| ERROR(S) FOUND IN MAT=2425, MF= 6, MT= 51 | RECORD NUMBER | 20051 |
| SECTION 6/ 51 NOT IN DIRECTORY | | |
28. Missing a section in directory so your directory is messed up. This error will break everything else
MAT=2425, MF= 6, MT= 52 (0): Directory (b)
- | | | |
|---|---------------|-------|
| ERROR(S) FOUND IN MAT=2425, MF= 6, MT= 52 | RECORD NUMBER | 20059 |
| SECTION 6/ 52 NOT IN DIRECTORY | | |
29. Missing a section in directory so your directory is messed up. This error will break everything else
MAT=2425, MF= 6, MT= 53 (0): Directory (b)
- | | | |
|---|---------------|-------|
| ERROR(S) FOUND IN MAT=2425, MF= 6, MT= 53 | RECORD NUMBER | 20067 |
| SECTION 6/ 53 NOT IN DIRECTORY | | |
30. Missing a section in directory so your directory is messed up. This error will break everything else
MAT=2425, MF= 6, MT= 54 (0): Directory (b)
- | | | |
|---|---------------|-------|
| ERROR(S) FOUND IN MAT=2425, MF= 6, MT= 54 | RECORD NUMBER | 20075 |
| SECTION 6/ 54 NOT IN DIRECTORY | | |
31. Missing a section in directory so your directory is messed up. This error will break everything else
MAT=2425, MF= 6, MT= 55 (0): Directory (b)

- | | | |
|---|---------------|-------|
| ERROR(S) FOUND IN MAT=2425, MF= 6, MT= 55 | RECORD NUMBER | 20083 |
| SECTION 6/ 55 NOT IN DIRECTORY | | |
32. Missing a section in directory so your directory is messed up. This error will break everything else
MAT=2425, MF= 6, MT= 56 (0): Directory (b)
- | | | |
|---|---------------|-------|
| ERROR(S) FOUND IN MAT=2425, MF= 6, MT= 56 | RECORD NUMBER | 20091 |
| SECTION 6/ 56 NOT IN DIRECTORY | | |
33. Missing a section in directory so your directory is messed up. This error will break everything else
MAT=2425, MF= 6, MT= 91 (0): Directory (b)
- | | | |
|---|---------------|-------|
| ERROR(S) FOUND IN MAT=2425, MF= 6, MT= 91 | RECORD NUMBER | 20099 |
| SECTION 6/ 91 NOT IN DIRECTORY | | |
34. Missing a section in directory so your directory is messed up. This error will break everything else
MAT=2425, MF= 6, MT=103 (0): Directory (b)
- | | | |
|---|---------------|-------|
| ERROR(S) FOUND IN MAT=2425, MF= 6, MT=103 | RECORD NUMBER | 21001 |
| SECTION 6/103 NOT IN DIRECTORY | | |
35. Missing a section in directory so your directory is messed up. This error will break everything else
MAT=2425, MF= 6, MT=107 (0): Directory (b)
- | | | |
|---|---------------|-------|
| ERROR(S) FOUND IN MAT=2425, MF= 6, MT=107 | RECORD NUMBER | 21894 |
| SECTION 6/107 NOT IN DIRECTORY | | |
36. Missing a section in directory so your directory is messed up. This error will break everything else
MAT=2425, MF=12, MT= 51 (0): Directory (b)
- | | | |
|---|---------------|-------|
| ERROR(S) FOUND IN MAT=2425, MF=12, MT= 51 | RECORD NUMBER | 22852 |
| SECTION 12/ 51 NOT IN DIRECTORY | | |
37. Missing a section in directory so your directory is messed up. This error will break everything else
MAT=2425, MF=12, MT= 52 (0): Directory (b)
- | | | |
|---|---------------|-------|
| ERROR(S) FOUND IN MAT=2425, MF=12, MT= 52 | RECORD NUMBER | 22856 |
| SECTION 12/ 52 NOT IN DIRECTORY | | |
38. Missing a section in directory so your directory is messed up. This error will break everything else
MAT=2425, MF=12, MT= 53 (0): Directory (b)
- | | | |
|---|---------------|-------|
| ERROR(S) FOUND IN MAT=2425, MF=12, MT= 53 | RECORD NUMBER | 22860 |
| SECTION 12/ 53 NOT IN DIRECTORY | | |
39. Missing a section in directory so your directory is messed up. This error will break everything else
MAT=2425, MF=12, MT= 54 (0): Directory (b)

- ERROR(S) FOUND IN MAT=2425, MF=12, MT= 54
SECTION 12/ 54 NOT IN DIRECTORY RECORD NUMBER 22864
40. Missing a section in directory so your directory is messed up. This error will break everything else
MAT=2425, MF=12, MT= 55 (0): Directory (b)
- ERROR(S) FOUND IN MAT=2425, MF=12, MT= 55
SECTION 12/ 55 NOT IN DIRECTORY RECORD NUMBER 22868
41. Missing a section in directory so your directory is messed up. This error will break everything else
MAT=2425, MF=12, MT= 56 (0): Directory (b)
- ERROR(S) FOUND IN MAT=2425, MF=12, MT= 56
SECTION 12/ 56 NOT IN DIRECTORY RECORD NUMBER 22872
42. Missing a section in directory so your directory is messed up. This error will break everything else
MAT=2425, MF=12, MT=102 (0): Directory (b)
- ERROR(S) FOUND IN MAT=2425, MF=12, MT=102
SECTION 12/102 NOT IN DIRECTORY RECORD NUMBER 22876
43. Missing a gamma spectrum for continuum of gammas
MAT=2425, MF=12, MT=102 (1): No gamma spectrum
- ERROR(S) FOUND IN MAT=2425, MF=12, MT=102
CONTINUUM PHOTONS REQUIRE A SECTION IN MF=15
44. Missing a section in directory so your directory is messed up. This error will break everything else
MAT=2425, MF=14, MT= 51 (0): Directory (b)
- ERROR(S) FOUND IN MAT=2425, MF=14, MT= 51
SECTION 14/ 51 NOT IN DIRECTORY RECORD NUMBER 23175
45. Missing a section in directory so your directory is messed up. This error will break everything else
MAT=2425, MF=14, MT= 52 (0): Directory (b)
- ERROR(S) FOUND IN MAT=2425, MF=14, MT= 52
SECTION 14/ 52 NOT IN DIRECTORY RECORD NUMBER 23177
46. Missing a section in directory so your directory is messed up. This error will break everything else
MAT=2425, MF=14, MT= 53 (0): Directory (b)
- ERROR(S) FOUND IN MAT=2425, MF=14, MT= 53
SECTION 14/ 53 NOT IN DIRECTORY RECORD NUMBER 23179
47. Missing a section in directory so your directory is messed up. This error will break everything else
MAT=2425, MF=14, MT= 54 (0): Directory (b)
- ERROR(S) FOUND IN MAT=2425, MF=14, MT= 54
SECTION 14/ 54 NOT IN DIRECTORY RECORD NUMBER 23181

48. Missing a section in directory so your directory is messed up. This error will break everything else
MAT=2425, MF=14, MT= 55 (0): Directory (b)
- ERROR(S) FOUND IN MAT=2425, MF=14, MT= 55
SECTION 14/ 55 NOT IN DIRECTORY RECORD NUMBER 23183
49. Missing a section in directory so your directory is messed up. This error will break everything else
MAT=2425, MF=14, MT= 56 (0): Directory (b)
- ERROR(S) FOUND IN MAT=2425, MF=14, MT= 56
SECTION 14/ 56 NOT IN DIRECTORY RECORD NUMBER 23185
50. Missing a section in directory so your directory is messed up. This error will break everything else
MAT=2425, MF=14, MT=102 (0): Directory (b)
- ERROR(S) FOUND IN MAT=2425, MF=14, MT=102
SECTION 14/102 NOT IN DIRECTORY RECORD NUMBER 23187
51. Missing a section in directory so your directory is messed up. This error will break everything else
MAT=2425, MF=15, MT=102 (0): Directory (b)
- ERROR(S) FOUND IN MAT=2425, MF=15, MT=102
SECTION 15/102 NOT IN DIRECTORY RECORD NUMBER 23190
52. Missing a section in directory so your directory is messed up. This error will break everything else
MAT=2425, MF=32, MT=151 (0): Directory (b)
- ERROR(S) FOUND IN MAT=2425, MF=32, MT=151
SECTION 32/151 NOT IN DIRECTORY RECORD NUMBER 23423
53. Missing a section in directory so your directory is messed up. This error will break everything else
MAT=2425, MF=33, MT= 1 (0): Directory (b)
- ERROR(S) FOUND IN MAT=2425, MF=33, MT= 1
SECTION 33/ 1 NOT IN DIRECTORY RECORD NUMBER 139759
54. Missing a section in directory so your directory is messed up. This error will break everything else
MAT=2425, MF=33, MT= 2 (0): Directory (b)
- ERROR(S) FOUND IN MAT=2425, MF=33, MT= 2
SECTION 33/ 2 NOT IN DIRECTORY RECORD NUMBER 139780
55. Missing a section in directory so your directory is messed up. This error will break everything else
MAT=2425, MF=33, MT= 3 (0): Directory (b)
- ERROR(S) FOUND IN MAT=2425, MF=33, MT= 3
SECTION 33/ 3 NOT IN DIRECTORY RECORD NUMBER 139807

56. Missing a section in directory so your directory is messed up. This error will break everything else
MAT=2425, MF=33, MT= 4 (0): Directory (b)
- ERROR(S) FOUND IN MAT=2425, MF=33, MT= 4
SECTION 33/ 4 NOT IN DIRECTORY RECORD NUMBER 139821
57. Missing a section in directory so your directory is messed up. This error will break everything else
MAT=2425, MF=33, MT= 16 (0): Directory (b)
- ERROR(S) FOUND IN MAT=2425, MF=33, MT= 16
SECTION 33/ 16 NOT IN DIRECTORY RECORD NUMBER 139831
58. Missing a section in directory so your directory is messed up. This error will break everything else
MAT=2425, MF=33, MT= 22 (0): Directory (b)
- ERROR(S) FOUND IN MAT=2425, MF=33, MT= 22
SECTION 33/ 22 NOT IN DIRECTORY RECORD NUMBER 139846
59. Missing a section in directory so your directory is messed up. This error will break everything else
MAT=2425, MF=33, MT= 28 (0): Directory (b)
- ERROR(S) FOUND IN MAT=2425, MF=33, MT= 28
SECTION 33/ 28 NOT IN DIRECTORY RECORD NUMBER 139863
60. Missing a section in directory so your directory is messed up. This error will break everything else
MAT=2425, MF=33, MT= 51 (0): Directory (b)
- ERROR(S) FOUND IN MAT=2425, MF=33, MT= 51
SECTION 33/ 51 NOT IN DIRECTORY RECORD NUMBER 139880
61. Missing a section in directory so your directory is messed up. This error will break everything else
MAT=2425, MF=33, MT= 52 (0): Directory (b)
- ERROR(S) FOUND IN MAT=2425, MF=33, MT= 52
SECTION 33/ 52 NOT IN DIRECTORY RECORD NUMBER 139895
62. Missing a section in directory so your directory is messed up. This error will break everything else
MAT=2425, MF=33, MT= 53 (0): Directory (b)
- ERROR(S) FOUND IN MAT=2425, MF=33, MT= 53
SECTION 33/ 53 NOT IN DIRECTORY RECORD NUMBER 139910
63. Missing a section in directory so your directory is messed up. This error will break everything else
MAT=2425, MF=33, MT= 54 (0): Directory (b)
- ERROR(S) FOUND IN MAT=2425, MF=33, MT= 54
SECTION 33/ 54 NOT IN DIRECTORY RECORD NUMBER 139925

64. Missing a section in directory so your directory is messed up. This error will break everything else

MAT=2425, MF=33, MT= 55 (0): Directory (b)

ERROR(S) FOUND IN MAT=2425, MF=33, MT= 55
SECTION 33/ 55 NOT IN DIRECTORY

RECORD NUMBER 139940

65. Missing a section in directory so your directory is messed up. This error will break everything else

MAT=2425, MF=33, MT= 56 (0): Directory (b)

ERROR(S) FOUND IN MAT=2425, MF=33, MT= 56
SECTION 33/ 56 NOT IN DIRECTORY

RECORD NUMBER 139955

66. Missing a section in directory so your directory is messed up. This error will break everything else

MAT=2425, MF=33, MT= 91 (0): Directory (b)

ERROR(S) FOUND IN MAT=2425, MF=33, MT= 91
SECTION 33/ 91 NOT IN DIRECTORY

RECORD NUMBER 139970

67. Missing a section in directory so your directory is messed up. This error will break everything else

MAT=2425, MF=33, MT=102 (0): Directory (b)

ERROR(S) FOUND IN MAT=2425, MF=33, MT=102
SECTION 33/102 NOT IN DIRECTORY

RECORD NUMBER 139987

68. Missing a section in directory so your directory is messed up. This error will break everything else

MAT=2425, MF=33, MT=103 (0): Directory (b)

ERROR(S) FOUND IN MAT=2425, MF=33, MT=103
SECTION 33/103 NOT IN DIRECTORY

RECORD NUMBER 140005

69. Missing a section in directory so your directory is messed up. This error will break everything else

MAT=2425, MF=33, MT=104 (0): Directory (b)

ERROR(S) FOUND IN MAT=2425, MF=33, MT=104
SECTION 33/104 NOT IN DIRECTORY

RECORD NUMBER 140024

70. Missing a section in directory so your directory is messed up. This error will break everything else

MAT=2425, MF=33, MT=107 (0): Directory (b)

ERROR(S) FOUND IN MAT=2425, MF=33, MT=107
SECTION 33/107 NOT IN DIRECTORY

RECORD NUMBER 140039

- **psyche** Warnings:

1. Gamma width not in agreement with PSYCHE's expectations
FILE 2 / SECTION 151 / ISOTOPE MASS = 50. L = 1 / AT RESONANCE ENERGY 5.46200E+03 EV. THE GAMMA WIDTH 1.00000E-02 DEVIATES TOO MUCH FROM THE AVERAGE 6.35966E-01 (0): Gamma width

- FILE 2
SECTION 151
ISOTOPE MASS = 50. L = 1
AT RESONANCE ENERGY 5.46200E+03 EV. THE GAMMA WIDTH 1.00000E-02 DEVIATES TOO MUCH FROM THE AV
2. Gamma width not in agreement with PSYCHE's expectations
FILE 2 / SECTION 151 / ISOTOPE MASS = 50. L = 1 / AT RESONANCE ENERGY 9.30400E+03 EV. THE GAMMA WIDTH 3.33000E+00 DEVIATES TOO MUCH FROM THE AVERAGE 6.35966E-01 (0): Gamma width
- FILE 2
SECTION 151
ISOTOPE MASS = 50. L = 1
AT RESONANCE ENERGY 9.30400E+03 EV. THE GAMMA WIDTH 3.33000E+00 DEVIATES TOO MUCH FROM THE AV
3. Gamma width not in agreement with PSYCHE's expectations
FILE 2 / SECTION 151 / ISOTOPE MASS = 50. L = 1 / AT RESONANCE ENERGY 2.40840E+04 EV. THE GAMMA WIDTH 1.70000E-01 DEVIATES TOO MUCH FROM THE AVERAGE 6.35966E-01 (0): Gamma width
- FILE 2
SECTION 151
ISOTOPE MASS = 50. L = 1
AT RESONANCE ENERGY 2.40840E+04 EV. THE GAMMA WIDTH 1.70000E-01 DEVIATES TOO MUCH FROM THE AV
4. Gamma width not in agreement with PSYCHE's expectations
FILE 2 / SECTION 151 / ISOTOPE MASS = 50. L = 1 / AT RESONANCE ENERGY 9.87324E+04 EV. THE GAMMA WIDTH 2.22000E+00 DEVIATES TOO MUCH FROM THE AVERAGE 6.35966E-01 (0): Gamma width
- FILE 2
SECTION 151
ISOTOPE MASS = 50. L = 1
AT RESONANCE ENERGY 9.87324E+04 EV. THE GAMMA WIDTH 2.22000E+00 DEVIATES TOO MUCH FROM THE AV
5. Gamma width not in agreement with PSYCHE's expectations
FILE 2 / SECTION 151 / ISOTOPE MASS = 50. L = 1 / AT RESONANCE ENERGY 1.36802E+05 EV. THE GAMMA WIDTH 3.70000E+00 DEVIATES TOO MUCH FROM THE AVERAGE 6.35966E-01 (0): Gamma width
- FILE 2
SECTION 151
ISOTOPE MASS = 50. L = 1
AT RESONANCE ENERGY 1.36802E+05 EV. THE GAMMA WIDTH 3.70000E+00 DEVIATES TOO MUCH FROM THE AV
6. Gamma width not in agreement with PSYCHE's expectations
FILE 2 / SECTION 151 / ISOTOPE MASS = 50. L = 1 / AT RESONANCE ENERGY 1.77441E+05 EV. THE GAMMA WIDTH 2.10000E+00 DEVIATES TOO MUCH FROM THE AVERAGE 6.35966E-01 (0): Gamma width
- FILE 2
SECTION 151
ISOTOPE MASS = 50. L = 1
AT RESONANCE ENERGY 1.77441E+05 EV. THE GAMMA WIDTH 2.10000E+00 DEVIATES TOO MUCH FROM THE AV
7. Gamma width not in agreement with PSYCHE's expectations
FILE 2 / SECTION 151 / ISOTOPE MASS = 50. L = 1 / AT RESONANCE

ENERGY 1.86739E+05 EV. THE GAMMA WIDTH 3.26000E+00 DEVIATES TOO MUCH FROM THE AVERAGE 6.35966E-01 (0): Gamma width

FILE 2

SECTION 151

ISOTOPE MASS = 50. L = 1

AT RESONANCE ENERGY 1.86739E+05 EV. THE GAMMA WIDTH 3.26000E+00 DEVIATES TOO MUCH FROM THE AV

8. Gamma width not in agreement with PSYCHE's expectations

FILE 2 / SECTION 151 / ISOTOPE MASS = 50. L = 1 / AT RESONANCE ENERGY 1.88466E+05 EV. THE GAMMA WIDTH 2.19000E+00 DEVIATES TOO MUCH FROM THE AVERAGE 6.35966E-01 (0): Gamma width

FILE 2

SECTION 151

ISOTOPE MASS = 50. L = 1

AT RESONANCE ENERGY 1.88466E+05 EV. THE GAMMA WIDTH 2.19000E+00 DEVIATES TOO MUCH FROM THE AV

9. Gamma width not in agreement with PSYCHE's expectations

FILE 2 / SECTION 151 / ISOTOPE MASS = 50. L = 1 / AT RESONANCE ENERGY 2.01908E+05 EV. THE GAMMA WIDTH 3.13000E+00 DEVIATES TOO MUCH FROM THE AVERAGE 6.35966E-01 (0): Gamma width

FILE 2

SECTION 151

ISOTOPE MASS = 50. L = 1

AT RESONANCE ENERGY 2.01908E+05 EV. THE GAMMA WIDTH 3.13000E+00 DEVIATES TOO MUCH FROM THE AV

10. Gamma width not in agreement with PSYCHE's expectations

FILE 2 / SECTION 151 / ISOTOPE MASS = 50. L = 1 / AT RESONANCE ENERGY 2.07468E+05 EV. THE GAMMA WIDTH 3.35000E+00 DEVIATES TOO MUCH FROM THE AVERAGE 6.35966E-01 (0): Gamma width

FILE 2

SECTION 151

ISOTOPE MASS = 50. L = 1

AT RESONANCE ENERGY 2.07468E+05 EV. THE GAMMA WIDTH 3.35000E+00 DEVIATES TOO MUCH FROM THE AV

11. Gamma width not in agreement with PSYCHE's expectations

FILE 2 / SECTION 151 / ISOTOPE MASS = 50. L = 1 / AT RESONANCE ENERGY 2.22659E+05 EV. THE GAMMA WIDTH 2.23000E+00 DEVIATES TOO MUCH FROM THE AVERAGE 6.35966E-01 (0): Gamma width

FILE 2

SECTION 151

ISOTOPE MASS = 50. L = 1

AT RESONANCE ENERGY 2.22659E+05 EV. THE GAMMA WIDTH 2.23000E+00 DEVIATES TOO MUCH FROM THE AV

12. Gamma width not in agreement with PSYCHE's expectations

FILE 2 / SECTION 151 / ISOTOPE MASS = 50. L = 1 / AT RESONANCE ENERGY 2.32257E+05 EV. THE GAMMA WIDTH 1.10000E-01 DEVIATES TOO MUCH FROM THE AVERAGE 6.35966E-01 (0): Gamma width

FILE 2

SECTION 151

ISOTOPE MASS = 50. L = 1

AT RESONANCE ENERGY 2.32257E+05 EV. THE GAMMA WIDTH 1.10000E-01 DEVIATES TOO MUCH FROM THE AV

13. Gamma width not in agreement with PSYCHE's expectations
FILE 2 / SECTION 151 / ISOTOPE MASS = 50. L = 1 / AT RESONANCE ENERGY 2.39656E+05 EV. THE GAMMA WIDTH 2.35000E+00 DEVIATES TOO MUCH FROM THE AVERAGE 6.35966E-01 (0): Gamma width

FILE 2

SECTION 151

ISOTOPE MASS = 50. L = 1

AT RESONANCE ENERGY 2.39656E+05 EV. THE GAMMA WIDTH 2.35000E+00 DEVIATES TOO MUCH FROM THE AV

14. Gamma width not in agreement with PSYCHE's expectations
FILE 2 / SECTION 151 / ISOTOPE MASS = 50. L = 1 / AT RESONANCE ENERGY 2.51517E+05 EV. THE GAMMA WIDTH 2.52000E+00 DEVIATES TOO MUCH FROM THE AVERAGE 6.35966E-01 (0): Gamma width

FILE 2

SECTION 151

ISOTOPE MASS = 50. L = 1

AT RESONANCE ENERGY 2.51517E+05 EV. THE GAMMA WIDTH 2.52000E+00 DEVIATES TOO MUCH FROM THE AV

15. Gamma width not in agreement with PSYCHE's expectations
FILE 2 / SECTION 151 / ISOTOPE MASS = 50. L = 2 / AT RESONANCE ENERGY 1.50577E+05 EV. THE GAMMA WIDTH 3.05000E+00 DEVIATES TOO MUCH FROM THE AVERAGE 6.71694E-01 (0): Gamma width

FILE 2

SECTION 151

ISOTOPE MASS = 50. L = 2

AT RESONANCE ENERGY 1.50577E+05 EV. THE GAMMA WIDTH 3.05000E+00 DEVIATES TOO MUCH FROM THE AV

16. Non-threshold reaction with Q value differing from PSYCHE's expectations
FILE 3 / SECTION 107 / THE CALCULATED Q 3.69906E+05 DISSAGREES WITH THE GIVEN Q 3.19500E+05 (0): Iffy Q

FILE 3

SECTION 107

THE CALCULATED Q 3.69906E+05 DISSAGREES WITH THE GIVEN Q 3.19500E+05

- groupie Errors:

1. Very small elastic cross section found
0: Small elastic

Multi-Group and Multi-Band Parameters from ENDF/B Data (GROUPIE 2015-2)

 ENDF/B Input and Output Data Filenames

ENDFB.IN

ENDFB.OUT

... [97 more lines]

- fudge-4.0 Warnings:

1. Cross section does not match sum of linked reaction cross sections
crossSectionSum label 0: total (Error # 0): CS Sum.

WARNING: Cross section does not match sum of linked reaction cross sections! Max diff: 0.18%

2. Cross section does not match sum of linked reaction cross sections
crossSectionSum label 1: nonelastic (Error # 0): CS Sum.

WARNING: Cross section does not match sum of linked reaction cross sections! Max diff: 96.43%
3. The ratio of smallest/largest eigenvalue is quite small, possibly leading to numerical instability in downstream codes.
Section 0 (total): / Form 'eval': / Component 1 (Error # 0): Condition num.

WARNING: Ratio of smallest/largest eigenvalue (0.000000e+00) is too small
4. The ratio of smallest/largest eigenvalue is quite small, possibly leading to numerical instability in downstream codes.
Section 0 (total): / Form 'eval': / Component 2 (Error # 0): Condition num.

WARNING: Ratio of smallest/largest eigenvalue (0.000000e+00) is too small
5. The ratio of smallest/largest eigenvalue is quite small, possibly leading to numerical instability in downstream codes.
Section 0 (total): / Form 'eval': / Component 3 (Error # 0): Condition num.

WARNING: Ratio of smallest/largest eigenvalue (0.000000e+00) is too small
6. The ratio of smallest/largest eigenvalue is quite small, possibly leading to numerical instability in downstream codes.
Section 0 (total): / Form 'eval': / Component 4 (Error # 0): Condition num.

WARNING: Ratio of smallest/largest eigenvalue (0.000000e+00) is too small
7. The ratio of smallest/largest eigenvalue is quite small, possibly leading to numerical instability in downstream codes.
Section 1 (n + Cr50): / Form 'eval': / Component 1 (Error # 0): Condition num.

WARNING: Ratio of smallest/largest eigenvalue (0.000000e+00) is too small
8. The ratio of smallest/largest eigenvalue is quite small, possibly leading to numerical instability in downstream codes.
Section 2 (nonelastic): / Form 'eval': / Component 0 (Error # 0): Condition num.

WARNING: Ratio of smallest/largest eigenvalue (0.000000e+00) is too small
9. The ratio of smallest/largest eigenvalue is quite small, possibly leading to numerical instability in downstream codes.
Section 2 (nonelastic): / Form 'eval': / Component 1 (Error # 0): Condition num.

WARNING: Ratio of smallest/largest eigenvalue (0.000000e+00) is too small
10. The ratio of smallest/largest eigenvalue is quite small, possibly leading to numerical instability in downstream codes.
Section 2 (nonelastic): / Form 'eval': / Component 2 (Error # 0): Condition num.

WARNING: Ratio of smallest/largest eigenvalue (0.000000e+00) is too small
11. The ratio of smallest/largest eigenvalue is quite small, possibly leading to numerical instability in downstream codes.
Section 4 (n[multiplicity:'2'] + Cr49 + gamma): / Form 'eval': / Component 0 (Error # 0): Condition num.

WARNING: Ratio of smallest/largest eigenvalue (0.000000e+00) is too small

12. The ratio of smallest/largest eigenvalue is quite small, possibly leading to numerical instability in downstream codes.
Section 4 ($n[\text{multiplicity:}'2'] + \text{Cr49} + \text{gamma}$): / Form 'eval': / Component 1 (Error # 0): Condition num.

WARNING: Ratio of smallest/largest eigenvalue (0.000000e+00) is too small

13. The ratio of smallest/largest eigenvalue is quite small, possibly leading to numerical instability in downstream codes.
Section 4 ($n[\text{multiplicity:}'2'] + \text{Cr49} + \text{gamma}$): / Form 'eval': / Component 2 (Error # 0): Condition num.

WARNING: Ratio of smallest/largest eigenvalue (0.000000e+00) is too small

14. The ratio of smallest/largest eigenvalue is quite small, possibly leading to numerical instability in downstream codes.
Section 4 ($n[\text{multiplicity:}'2'] + \text{Cr49} + \text{gamma}$): / Form 'eval': / Component 3 (Error # 0): Condition num.

WARNING: Ratio of smallest/largest eigenvalue (0.000000e+00) is too small

15. The ratio of smallest/largest eigenvalue is quite small, possibly leading to numerical instability in downstream codes.
Section 5 ($n + \text{He4} + \text{Ti46} + \text{gamma}$): / Form 'eval': / Component 0 (Error # 0): Condition num.

WARNING: Ratio of smallest/largest eigenvalue (0.000000e+00) is too small

16. The ratio of smallest/largest eigenvalue is quite small, possibly leading to numerical instability in downstream codes.
Section 5 ($n + \text{He4} + \text{Ti46} + \text{gamma}$): / Form 'eval': / Component 1 (Error # 0): Condition num.

WARNING: Ratio of smallest/largest eigenvalue (0.000000e+00) is too small

17. The ratio of smallest/largest eigenvalue is quite small, possibly leading to numerical instability in downstream codes.
Section 5 ($n + \text{He4} + \text{Ti46} + \text{gamma}$): / Form 'eval': / Component 2 (Error # 0): Condition num.

WARNING: Ratio of smallest/largest eigenvalue (0.000000e+00) is too small

18. The ratio of smallest/largest eigenvalue is quite small, possibly leading to numerical instability in downstream codes.
Section 5 ($n + \text{He4} + \text{Ti46} + \text{gamma}$): / Form 'eval': / Component 3 (Error # 0): Condition num.

WARNING: Ratio of smallest/largest eigenvalue (0.000000e+00) is too small

19. The ratio of smallest/largest eigenvalue is quite small, possibly leading to numerical instability in downstream codes.
Section 6 ($n + \text{H1} + \text{V49} + \text{gamma}$): / Form 'eval': / Component 0 (Error # 0): Condition num.

WARNING: Ratio of smallest/largest eigenvalue (0.000000e+00) is too small

20. The ratio of smallest/largest eigenvalue is quite small, possibly leading to numerical instability in downstream codes.
Section 6 ($n + H1 + V49 + \gamma$): / Form 'eval': / Component 1 (Error # 0): Condition num.

WARNING: Ratio of smallest/largest eigenvalue (0.000000e+00) is too small

21. The ratio of smallest/largest eigenvalue is quite small, possibly leading to numerical instability in downstream codes.
Section 6 ($n + H1 + V49 + \gamma$): / Form 'eval': / Component 2 (Error # 0): Condition num.

WARNING: Ratio of smallest/largest eigenvalue (0.000000e+00) is too small

22. The ratio of smallest/largest eigenvalue is quite small, possibly leading to numerical instability in downstream codes.
Section 6 ($n + H1 + V49 + \gamma$): / Form 'eval': / Component 3 (Error # 0): Condition num.

WARNING: Ratio of smallest/largest eigenvalue (0.000000e+00) is too small

23. The ratio of smallest/largest eigenvalue is quite small, possibly leading to numerical instability in downstream codes.
Section 7 ($n + Cr50_e1$): / Form 'eval': / Component 0 (Error # 0): Condition num.

WARNING: Ratio of smallest/largest eigenvalue (0.000000e+00) is too small

24. The ratio of smallest/largest eigenvalue is quite small, possibly leading to numerical instability in downstream codes.
Section 7 ($n + Cr50_e1$): / Form 'eval': / Component 1 (Error # 0): Condition num.

WARNING: Ratio of smallest/largest eigenvalue (0.000000e+00) is too small

25. The ratio of smallest/largest eigenvalue is quite small, possibly leading to numerical instability in downstream codes.
Section 7 ($n + Cr50_e1$): / Form 'eval': / Component 2 (Error # 0): Condition num.

WARNING: Ratio of smallest/largest eigenvalue (0.000000e+00) is too small

26. The ratio of smallest/largest eigenvalue is quite small, possibly leading to numerical instability in downstream codes.
Section 7 ($n + Cr50_e1$): / Form 'eval': / Component 3 (Error # 0): Condition num.

WARNING: Ratio of smallest/largest eigenvalue (0.000000e+00) is too small

27. The ratio of smallest/largest eigenvalue is quite small, possibly leading to numerical instability in downstream codes.
Section 8 ($n + Cr50_e2$): / Form 'eval': / Component 0 (Error # 0): Condition num.

WARNING: Ratio of smallest/largest eigenvalue (0.000000e+00) is too small

28. The ratio of smallest/largest eigenvalue is quite small, possibly leading to numerical instability in downstream codes.
Section 8 ($n + Cr50_e2$): / Form 'eval': / Component 1 (Error # 0): Condition num.

- WARNING: Ratio of smallest/largest eigenvalue (0.000000e+00) is too small
29. The ratio of smallest/largest eigenvalue is quite small, possibly leading to numerical instability in downstream codes.
Section 8 ($n + Cr50_e2$): / Form 'eval': / Component 2 (Error # 0): Condition num.
- WARNING: Ratio of smallest/largest eigenvalue (0.000000e+00) is too small
30. The ratio of smallest/largest eigenvalue is quite small, possibly leading to numerical instability in downstream codes.
Section 8 ($n + Cr50_e2$): / Form 'eval': / Component 3 (Error # 0): Condition num.
- WARNING: Ratio of smallest/largest eigenvalue (0.000000e+00) is too small
31. The ratio of smallest/largest eigenvalue is quite small, possibly leading to numerical instability in downstream codes.
Section 9 ($n + Cr50_e3$): / Form 'eval': / Component 0 (Error # 0): Condition num.
- WARNING: Ratio of smallest/largest eigenvalue (0.000000e+00) is too small
32. The ratio of smallest/largest eigenvalue is quite small, possibly leading to numerical instability in downstream codes.
Section 9 ($n + Cr50_e3$): / Form 'eval': / Component 1 (Error # 0): Condition num.
- WARNING: Ratio of smallest/largest eigenvalue (0.000000e+00) is too small
33. The ratio of smallest/largest eigenvalue is quite small, possibly leading to numerical instability in downstream codes.
Section 9 ($n + Cr50_e3$): / Form 'eval': / Component 2 (Error # 0): Condition num.
- WARNING: Ratio of smallest/largest eigenvalue (0.000000e+00) is too small
34. The ratio of smallest/largest eigenvalue is quite small, possibly leading to numerical instability in downstream codes.
Section 9 ($n + Cr50_e3$): / Form 'eval': / Component 3 (Error # 0): Condition num.
- WARNING: Ratio of smallest/largest eigenvalue (0.000000e+00) is too small
35. The ratio of smallest/largest eigenvalue is quite small, possibly leading to numerical instability in downstream codes.
Section 10 ($n + Cr50_e4$): / Form 'eval': / Component 0 (Error # 0): Condition num.
- WARNING: Ratio of smallest/largest eigenvalue (0.000000e+00) is too small
36. The ratio of smallest/largest eigenvalue is quite small, possibly leading to numerical instability in downstream codes.
Section 10 ($n + Cr50_e4$): / Form 'eval': / Component 1 (Error # 0): Condition num.
- WARNING: Ratio of smallest/largest eigenvalue (0.000000e+00) is too small
37. The ratio of smallest/largest eigenvalue is quite small, possibly leading to numerical instability in downstream codes.
Section 10 ($n + Cr50_e4$): / Form 'eval': / Component 2 (Error # 0): Condition num.
- WARNING: Ratio of smallest/largest eigenvalue (0.000000e+00) is too small

38. The ratio of smallest/largest eigenvalue is quite small, possibly leading to numerical instability in downstream codes.
Section 10 ($n + Cr50.e4$): / Form 'eval': / Component 3 (Error # 0): Condition num.
- WARNING: Ratio of smallest/largest eigenvalue (0.000000e+00) is too small
39. The ratio of smallest/largest eigenvalue is quite small, possibly leading to numerical instability in downstream codes.
Section 11 ($n + Cr50.e5$): / Form 'eval': / Component 0 (Error # 0): Condition num.
- WARNING: Ratio of smallest/largest eigenvalue (0.000000e+00) is too small
40. The ratio of smallest/largest eigenvalue is quite small, possibly leading to numerical instability in downstream codes.
Section 11 ($n + Cr50.e5$): / Form 'eval': / Component 1 (Error # 0): Condition num.
- WARNING: Ratio of smallest/largest eigenvalue (0.000000e+00) is too small
41. The ratio of smallest/largest eigenvalue is quite small, possibly leading to numerical instability in downstream codes.
Section 11 ($n + Cr50.e5$): / Form 'eval': / Component 2 (Error # 0): Condition num.
- WARNING: Ratio of smallest/largest eigenvalue (0.000000e+00) is too small
42. The ratio of smallest/largest eigenvalue is quite small, possibly leading to numerical instability in downstream codes.
Section 11 ($n + Cr50.e5$): / Form 'eval': / Component 3 (Error # 0): Condition num.
- WARNING: Ratio of smallest/largest eigenvalue (0.000000e+00) is too small
43. The ratio of smallest/largest eigenvalue is quite small, possibly leading to numerical instability in downstream codes.
Section 12 ($n + Cr50.e6$): / Form 'eval': / Component 0 (Error # 0): Condition num.
- WARNING: Ratio of smallest/largest eigenvalue (0.000000e+00) is too small
44. The ratio of smallest/largest eigenvalue is quite small, possibly leading to numerical instability in downstream codes.
Section 12 ($n + Cr50.e6$): / Form 'eval': / Component 1 (Error # 0): Condition num.
- WARNING: Ratio of smallest/largest eigenvalue (0.000000e+00) is too small
45. The ratio of smallest/largest eigenvalue is quite small, possibly leading to numerical instability in downstream codes.
Section 12 ($n + Cr50.e6$): / Form 'eval': / Component 2 (Error # 0): Condition num.
- WARNING: Ratio of smallest/largest eigenvalue (0.000000e+00) is too small
46. The ratio of smallest/largest eigenvalue is quite small, possibly leading to numerical instability in downstream codes.
Section 12 ($n + Cr50.e6$): / Form 'eval': / Component 3 (Error # 0): Condition num.
- WARNING: Ratio of smallest/largest eigenvalue (0.000000e+00) is too small

47. The ratio of smallest/largest eigenvalue is quite small, possibly leading to numerical instability in downstream codes.
Section 13 ($n + (Cr50_c \rightarrow Cr50 + \gamma)$): / Form 'eval': / Component 0 (Error # 0): Condition num.

WARNING: Ratio of smallest/largest eigenvalue (0.000000e+00) is too small

48. The ratio of smallest/largest eigenvalue is quite small, possibly leading to numerical instability in downstream codes.
Section 13 ($n + (Cr50_c \rightarrow Cr50 + \gamma)$): / Form 'eval': / Component 1 (Error # 0): Condition num.

WARNING: Ratio of smallest/largest eigenvalue (0.000000e+00) is too small

49. The ratio of smallest/largest eigenvalue is quite small, possibly leading to numerical instability in downstream codes.
Section 13 ($n + (Cr50_c \rightarrow Cr50 + \gamma)$): / Form 'eval': / Component 2 (Error # 0): Condition num.

WARNING: Ratio of smallest/largest eigenvalue (0.000000e+00) is too small

50. The ratio of smallest/largest eigenvalue is quite small, possibly leading to numerical instability in downstream codes.
Section 13 ($n + (Cr50_c \rightarrow Cr50 + \gamma)$): / Form 'eval': / Component 3 (Error # 0): Condition num.

WARNING: Ratio of smallest/largest eigenvalue (0.000000e+00) is too small

51. The ratio of smallest/largest eigenvalue is quite small, possibly leading to numerical instability in downstream codes.
Section 14 ($Cr51 + \gamma$): / Form 'eval': / Component 0 (Error # 0): Condition num.

WARNING: Ratio of smallest/largest eigenvalue (0.000000e+00) is too small

52. The ratio of smallest/largest eigenvalue is quite small, possibly leading to numerical instability in downstream codes.
Section 14 ($Cr51 + \gamma$): / Form 'eval': / Component 1 (Error # 0): Condition num.

WARNING: Ratio of smallest/largest eigenvalue (0.000000e+00) is too small

53. The ratio of smallest/largest eigenvalue is quite small, possibly leading to numerical instability in downstream codes.
Section 14 ($Cr51 + \gamma$): / Form 'eval': / Component 2 (Error # 0): Condition num.

WARNING: Ratio of smallest/largest eigenvalue (0.000000e+00) is too small

54. The ratio of smallest/largest eigenvalue is quite small, possibly leading to numerical instability in downstream codes.
Section 14 ($Cr51 + \gamma$): / Form 'eval': / Component 3 (Error # 0): Condition num.

WARNING: Ratio of smallest/largest eigenvalue (0.000000e+00) is too small

55. The ratio of smallest/largest eigenvalue is quite small, possibly leading to numerical instability in downstream codes.
Section 15 ($H1 + (V50_s \rightarrow V50 + \gamma)$): / Form 'eval': / Component 0 (Error # 0): Condition num.

WARNING: Ratio of smallest/largest eigenvalue (0.000000e+00) is too small

56. The ratio of smallest/largest eigenvalue is quite small, possibly leading to numerical instability in downstream codes.
Section 15 ($H1 + (V50_s \rightarrow V50 + \gamma)$): / Form 'eval': / Component 1 (Error # 0): Condition num.

WARNING: Ratio of smallest/largest eigenvalue (0.000000e+00) is too small

57. The ratio of smallest/largest eigenvalue is quite small, possibly leading to numerical instability in downstream codes.
Section 15 ($H1 + (V50_s \rightarrow V50 + \gamma)$): / Form 'eval': / Component 2 (Error # 0): Condition num.

WARNING: Ratio of smallest/largest eigenvalue (0.000000e+00) is too small

58. The ratio of smallest/largest eigenvalue is quite small, possibly leading to numerical instability in downstream codes.
Section 15 ($H1 + (V50_s \rightarrow V50 + \gamma)$): / Form 'eval': / Component 3 (Error # 0): Condition num.

WARNING: Ratio of smallest/largest eigenvalue (0.000000e+00) is too small

59. The ratio of smallest/largest eigenvalue is quite small, possibly leading to numerical instability in downstream codes.
Section 16 ($H2 + V49_s$): / Form 'eval': / Component 0 (Error # 0): Condition num.

WARNING: Ratio of smallest/largest eigenvalue (0.000000e+00) is too small

60. The ratio of smallest/largest eigenvalue is quite small, possibly leading to numerical instability in downstream codes.
Section 16 ($H2 + V49_s$): / Form 'eval': / Component 1 (Error # 0): Condition num.

WARNING: Ratio of smallest/largest eigenvalue (0.000000e+00) is too small

61. The ratio of smallest/largest eigenvalue is quite small, possibly leading to numerical instability in downstream codes.
Section 16 ($H2 + V49_s$): / Form 'eval': / Component 2 (Error # 0): Condition num.

WARNING: Ratio of smallest/largest eigenvalue (0.000000e+00) is too small

62. The ratio of smallest/largest eigenvalue is quite small, possibly leading to numerical instability in downstream codes.
Section 16 ($H2 + V49_s$): / Form 'eval': / Component 3 (Error # 0): Condition num.

WARNING: Ratio of smallest/largest eigenvalue (0.000000e+00) is too small

63. The ratio of smallest/largest eigenvalue is quite small, possibly leading to numerical instability in downstream codes.
Section 17 ($He4 + (Ti47_s \rightarrow Ti47 + \gamma)$): / Form 'eval': / Component 0 (Error # 0): Condition num.

WARNING: Ratio of smallest/largest eigenvalue (0.000000e+00) is too small

64. The ratio of smallest/largest eigenvalue is quite small, possibly leading to numerical instability in downstream codes.
Section 17 (He4 + (Ti47_s -> Ti47 + gamma)): / Form 'eval': / Component 1 (Error # 0): Condition num.

WARNING: Ratio of smallest/largest eigenvalue (0.000000e+00) is too small

65. The ratio of smallest/largest eigenvalue is quite small, possibly leading to numerical instability in downstream codes.
Section 17 (He4 + (Ti47_s -> Ti47 + gamma)): / Form 'eval': / Component 2 (Error # 0): Condition num.

WARNING: Ratio of smallest/largest eigenvalue (0.000000e+00) is too small

66. The ratio of smallest/largest eigenvalue is quite small, possibly leading to numerical instability in downstream codes.
Section 17 (He4 + (Ti47_s -> Ti47 + gamma)): / Form 'eval': / Component 3 (Error # 0): Condition num.

WARNING: Ratio of smallest/largest eigenvalue (0.000000e+00) is too small

• fudge-4.0 Errors:

1. Calculated and tabulated Q values disagree.
reaction label 8: n[multiplicity:'2'] + Cr49 + gamma (Error # 0): Q mismatch

WARNING: Calculated and tabulated Q-values disagree: 7.62939453125e-6 eV vs -1.3e7 eV!

2. Calculated and tabulated Q values disagree.
reaction label 9: n + H1 + V49 + gamma (Error # 0): Q mismatch

WARNING: Calculated and tabulated Q-values disagree: -9549604.014549255 eV vs -9.59e6 eV!

3. Calculated and tabulated Q values disagree.
reaction label 10: Cr51 + gamma (Error # 0): Q mismatch

WARNING: Calculated and tabulated Q-values disagree: 9275927.112319946 eV vs 9.2617e6 eV!

4. Calculated and tabulated Q values disagree.
reaction label 11: n + He4 + Ti46 + gamma (Error # 0): Q mismatch

WARNING: Calculated and tabulated Q-values disagree: -9910211.324119568 eV vs -8.56e6 eV!

5. Calculated and tabulated Q values disagree.
reaction label 12: H1 + (V50_s -> V50 + gamma) (Error # 0): Q mismatch

WARNING: Calculated and tabulated Q-values disagree: -153950.3703842163 eV vs -2.563e5 eV!

6. Calculated and tabulated Q values disagree.
reaction label 13: H2 + V49_s (Error # 0): Q mismatch

WARNING: Calculated and tabulated Q-values disagree: -7332229.707946777 eV vs -7.364e6 eV!

7. Calculated and tabulated Q values disagree.
reaction label 14: He4 + (Ti47-s -> Ti47 + gamma) (Error # 0): Q mismatch

WARNING: Calculated and tabulated Q-values disagree: -289061.9924926758 eV vs 3.195e5 eV!

8. Multiplicity does not match sum of linked product multiplicities!
multiplicitySum label 4: Cr51 + gamma total gamma multiplicity (Error # 0): summed-MultiplicityMismatch

WARNING: Multiplicity does not match sum of linked product multiplicities! Max diff: 47.22%

9. A summed covariance refers to another which refers back to the first which refers the second which refers to the first which refers to the ...
(Error # 5): Cyclic

n-024_Cr_050.endf: WARNING: Cyclic dependency in summed covariances for sections /covarianceSuite/section[@label

• njoy2012 Warnings:

1. Message comes from several resonance types that do not support the calculation of angular distributions. Some of them can be used if Want_SAMRL_RM or Want_SAMRML_BW are true.
reconr...reconstruct pointwise cross sections in pendf format (0): RECONR/calculation of angular distribution not installed (0)

---message from rdf2bw---calculation of angular distribution not installed.
 samm max legendre order: 0

2. Evaluation has no unresolved resonance parameters given
unresr...calculation of unresolved resonance cross sections (0): No URR

---message from unresr---mat 2425 has no unresolved parameters
 copy as is to nout

3. Evaluation has no unresolved resonance parameters given
purrr...probabalistic unresolved calculation (0): No URR

---message from purrr---mat 2425 has no unresolved parameters
 copy as is to nout

4. There is bad Kalbach parameter (r(E) or otherwise)
check...ace consistency check (0): ACER/check energy distributions (0)

check energy distributions
 consis: ep.gt.epmax 9.608011E-12 with q.lt.0 for (n,x) at e 1.000000E-11 -> 1.000000E-11

5. There is bad Kalbach parameter (r(E) or otherwise)
check...ace consistency check (1): ACER/check energy distributions (0)

check energy distributions
 consis: awr.lt.180---this is probably an error.

6. There is bad Kalbach parameter (r(E) or otherwise)
check...ace consistency check (2): ACER/check energy distributions (0)

- check energy distributions
consis: shifting eprimes greater than epmax and renorming the distribution
7. There is bad Kalbach parameter (r(E) or otherwise)
check...ace consistency check (3): ACER/check energy distributions (0)
- check energy distributions
consis: ep.gt.epmax 7.686409E+01 with q.lt.0 for (n,x) at e 8.000000E+01 -> 7.694607E+01
8. There is bad Kalbach parameter (r(E) or otherwise)
check...ace consistency check (4): ACER/check energy distributions (0)
- check energy distributions
consis: awr.lt.180---this is probably an error.
9. There is bad Kalbach parameter (r(E) or otherwise)
check...ace consistency check (5): ACER/check energy distributions (0)
- check energy distributions
consis: shifting eprimes greater than epmax and renorming the distribution
10. There is bad Kalbach parameter (r(E) or otherwise)
check...ace consistency check (6): ACER/check energy distributions (0)
- check energy distributions
consis: ep.gt.epmax 8.166809E+01 with q.lt.0 for (n,x) at e 8.500000E+01 -> 8.184709E+01
11. There is bad Kalbach parameter (r(E) or otherwise)
check...ace consistency check (7): ACER/check energy distributions (0)
- check energy distributions
consis: awr.lt.180---this is probably an error.
12. There is bad Kalbach parameter (r(E) or otherwise)
check...ace consistency check (8): ACER/check energy distributions (0)
- check energy distributions
consis: shifting eprimes greater than epmax and renorming the distribution
13. There is bad Kalbach parameter (r(E) or otherwise)
check...ace consistency check (9): ACER/check energy distributions (0)
- check energy distributions
consis: ep.gt.epmax 1.249041E+02 with q.lt.0 for (n,x) at e 1.300000E+02 -> 1.249761E+02
14. There is bad Kalbach parameter (r(E) or otherwise)
check...ace consistency check (10): ACER/check energy distributions (0)
- check energy distributions
consis: awr.lt.180---this is probably an error.
15. There is bad Kalbach parameter (r(E) or otherwise)
check...ace consistency check (11): ACER/check energy distributions (0)
- check energy distributions
consis: shifting eprimes greater than epmax and renorming the distribution

16. Only partial urr covariance data was given.
errorrr...produce cross section covariances (0): ERRORR/resprx (5)

```

---message from resprx---mf2 nls=3, but mf32 nls=0
                        continue with partial urr covariance data

```

17. No scattering radius uncertainty given.
errorrr...produce cross section covariances (1): ERRORR/rpxlc12 (0)

```

---message from rpxlc12---no scattering radius uncertainty

```

18. Generic warning message
errorrr...produce cross section covariances (2): Warning

```

---message from rpxlc12---resonance parameter loop done           135.6s

```

19. Generic warning message
errorrr...produce cross section covariances (3): Warning

```

---message from rpxlc12---sensitivity calculation continues       728.1s

```

20. Generic warning message
errorrr...produce cross section covariances (4): Warning

```

---message from rpxlc12---sensitivity calculation completed      1646.3s

```

- **acelst Warnings:**

1. The incident energy grid is not monotonic for this angular distribution
0: Bad Ang. Dist.

```

ACELST WARNING - Processing Ang.Dist.MT           2
                  E-grid non-monotonic  2.000000000E+01 2.000000000E+01

```

- **xsectplotter Errors:**

1. Exception IndexError was thrown
/usr/local/lib/python2.7/site-packages/matplotlib-1.5.3-py2.7-linux-x86_64.egg/matplotlib/font_manager.py:2
UserWarning: Matplotlib is building the font cache using fc-list. This may take a mo-
ment. (Error # 2): IndexError

```

IndexError: list index out of range

```